




**ZNSHINE  
SOLAR**

# ZNSHINE SOLAR

A BNEF Global Tier1 PV Module maker



An aerial photograph of a farm at sunrise or sunset. The scene is bathed in a warm, golden light. In the foreground, a large barn with a grey roof is covered in a grid of solar panels. To the right of the barn, there's a circular riding arena with a wooden fence. The background shows rolling green hills and a dense forest of trees. The sky is a mix of soft orange and pale blue.

## ■ OUR MISSION

*We are motivated to make solar power become the most economical clean energy in the world. We are committed to the comprehensive and reliable development of new energy products and technologies.*

— ZNSHINE PV-TECH CO. LTD

# 30+ YEARS OF MANUFACTURING EXCELLENCE

Founded in 1988, ZNShine Solar is one of the pioneers in the photovoltaic industry, which is involved in power station development and operation, EPC service, and module manufacturing. Its business covers more than 40 countries around the world. For decades, ZNShine Solar has obtained the trust of many customers around the world with its product reliability and high performance. To keep up with and exceed the expectations of our customers, we have been trying to improve the efficiency of our products by using the leading technology and manufacturing process. The company adopts the international leading automatic production equipment manufacturing while ensuring product quality, greatly reducing the cost of its modules.



**6GW GLOBAL MODULE CAPACITY  
MEETING OUR CUSTOMERS' NEEDS**

Nowadays, ZNShine Solar module capacity is 6Gw, developing and adopting innovative photovoltaic technology to generate clean and renewable energy. With more than 32 years of manufacturing experience, ZNShine Solar utilizes solar power to produce sustainable clean energy.

**📍 SUQIAN | CHANGZHOU • CHINA**



**BLOOMBERG NEW ENERGY FINANCE**



**TIER 1 MODULE MANUFACTURER**



**FOUNDED IN  
1988**



**MODULE CAPACITY  
6GW**



**BLOOMBERG NEW ENERGY FINANCE  
TIER1**



**TOP PERFORMER  
DNV GL**



**MANUFACTURING SITES  
2**



**IN INDIAN MARKET  
NO.1**

PREMIUM  
QUALITY

SMART  
MANUFACTURING



PRODUCTION MONITORED 24H



HIGHLY AUTOMATED PRODUCTION LINE



2 PRODUCTION SITES



**Automated manufacturing ensures continuous, predictable, and stable productivity.**

To keep up with and exceed the expectations of our customers, we have been trying to improve the efficiency of our products by using the leading technology and manufacturing process. The company adopts the international leading automatic production equipment manufacturing while ensuring product quality, greatly reducing the cost of its modules. Automated Intelligence minimizes human errors. By making full use of automation to achieve high-quality manufacturing plants and adopting leading marketing management systems, we ensure that production matches customer needs and maintains the best balance between inventory, production, and product delivery.



**Nothing can escape our uncompromising quality control system**

As a Tier1 PV module manufacturer, ZNShine Solar's reputation is attributed to the reliability of its products. Our uncompromising quality control system ensures that consumers get the best products. We invest in employees and work equipment at all costs, so we can be proud of our efficiency no matter where the product is. For decades, ZNShine Solar has been committed to developing PV related business. We always adhere to our mission: to provide customers with the most valuable PV products, to help them improve enterprise efficiency. We integrate the industry's deep experience into every module.



**99.8%** PRODUCT YIELD RATE

STRICTLY MONITORING OF OUR PRODUCTION PROCESS: FROM MATERIAL COLLECTION TO LATER PRODUCTION AND SHIPMENT.

# R&D AND CERTIFICATION

PATENT	RESEARCH & DEVELOPMENT	AUTHORITATIVE CERTIFICATIONS
★ <b>100+</b>	★★ <b>100+</b>	★★★ <b>1</b>
Global Exclusive Graphene Coating Technology Patent	ZNShine Solar and Shanghai Jiao tong University jointly set up the R&D center to improve the conversion rate of solar cells and develop photoelectric conversion technology. We have increased module efficiency to a level that is ahead of other module manufacturers.	CSA, CNAS, CTC, TUV, TMP and TUV CTF accredited laboratories



## MODULE CERTIFICATION

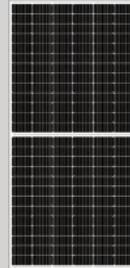
ZNShine Solar is committed to the research and development of solar module technology to provide customers with the maximum revenue. We obtained CNAS certification of product testing laboratory, the introduction of the most advanced testing equipment and professional and technical personnel.



## GLOBAL CERTIFICATION

ZNShine Solar products have passed the European IEC standards certification, and those of many other authoritative testing organizations around the world, including TÜV RHEINLAND, TÜV SÜD, UL, JET, BIS, CEC, KS, MCS, TIS and China CQC.





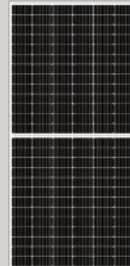
#### LIGHT WEIGHT DOUBLE GLASS MODULES

Frame design makes module compatible with all racking and installation methods

Use lightweight glasses to reduce Module weight by 20%

High reliability, proven to be reliable in high temperature and humidity areas

Minimizes micro-crack and snail trails

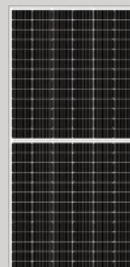


#### BIFACIAL SOLAR MODULES

Power generation can be increased by an additional 25%

Excellent Anti-PID performance guarantee limited power degradation for mass production

Excellent performance in low-light environments

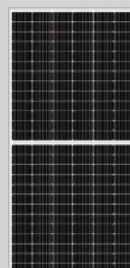


#### MULTI-BUSBAR (MBB) HALF-CUT MODULES

Reduce electrical ribbon resistance and finally improves the overall module efficiency and power.

High reliability with strong resistance against hotspots.

Reduced resistance losses with over 50% shortened current conduction distance



#### GRAPHENE COATING SOLAR MODULES

Self-Cleaning

2% More Power than Standard Modules

Better Weak Illumination Response

Longer Product Life



## ULTRA-HIGH POWER MODULE 600W

Based on 182mm and 210 mm cells, Znshine solar applies innovative non-destructive cutting and high-density encapsulation technologies, eliminating the potential risks associated with ultra-high power modules voltage, current and thermal overload as well as micro cracks.

# GLOBAL SERVICE

ZNShine Solar is a global enterprise with 1200 employees worldwide. It has subsidiaries in India, Australia, Germany, and the Middle East, and has more than 20 field offices and service offices around the world.

At ZNShine Solar, we see a greater possibility. We want to meet our customer satisfaction, which prompts our customer support team to meet you during the pre-production and post-production stages of the product. We provide professional consulting, installation, and transportation services. We believe this value is more than just providing quality products. We will do everything we can to ensure that we can solve any possible problem.

# PROVIDING YOU OUR BEST SUPPORT



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# LIGHTING UP THE WORLD WITH THE POWER OF THE SUN

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Our survival and growth as a PV manufacturer demonstrate our deep desire to provide clean, affordable renewable energy. We believe that the possibility of using the power of the sun to illuminate the earth and every step we take will make that aspiration a reality.

We support society to promote a green earth. We have been committed to improving the world around us by participating in public welfare activities and anti-poverty programs.

In October 2014, ZNShine Solar set up a scholarship program at Southeast University to support education. Our commitment to achieving our dreams has helped us improve the condition of our schoolchildren. In June 2017, ZNShine Solar also provided bedding for Tibetan schoolchildren.



WHERE THERE IS SUNSHINE, THERE IS ZNSHINE SOLAR